

# Sequence Listing

<110> Baker, Kevin  
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Ferrara, Napoleone  
Filvaroff, Ellen  
Gerritsen, Mary  
Goddard, Audrey  
Godowski, Paul  
Grimaldi, Christopher  
Gurney, Austin  
Hillan, Kenneth  
Kljavin, Ivar  
Napier, Mary  
Roy, Margaret  
Tumas, Daniel  
Wood, William

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FOUO EFT44660

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Table 1. Demographic characteristics of the study population	
Age (years)	50.0
Gender	Male 100
Marital status	Married 100
Education	High school 100
Occupation	Unemployed 100
Religion	Islam 100
Smoking status	Smoker 100
Alcohol consumption	Non-drinker 100
Family size	3.5
Income (TL/month)	1000
Health insurance	Yes 100
Comorbidities	Hypertension 100
Diabetes mellitus	100
Chronic kidney disease	100
Heart failure	100
Coronary artery disease	100
Stroke	100
Depression	100
Anxiety	100
Substance use	None 100
Medication use	Antihypertensives 100
Diuretics	100
Statins	100
Antidepressants	100
Antipsychotics	100
Insulin	100
Other medications	100
Adherence to treatment	100
Health status	Good 100
Quality of life	100
Social support	100
Stress levels	100
Life satisfaction	100
Overall health	100

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				20					25					30
Leu	Lys	Asp	Met	Glu	Asp	Thr	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp
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Asp	Asp	Asp	Asp	Asp	Glu	Asp	Asn	Ser	Leu	Phe	Pro	Thr	Arg	Glu
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Pro	Arg	Ser	His	Phe	Phe	Pro	Phe	Asp	Leu	Phe	Pro	Met	Cys	Pro
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Leu	Asn	Leu	Pro	Lys	Ser	Leu	Ala	Glu	Leu	Arg	Ile	His	Glu	Asn
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Lys	Val	Lys	Lys	Ile	Gln	Lys	Asp	Thr	Phe	Lys	Gly	Met	Asn	Ala
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Ala Lys Pro Gly Gly Pro Gly Arg Pro Arg Asp Pro Asn Thr Cys	695	700	705
Phe Phe Glu Gly Gln Gln Arg Pro His Gly Ala Arg Trp Ala Pro	710	715	720
Asn Tyr Asp Pro Leu Cys Ser Leu Cys Thr Cys Gln Arg Arg Thr	725	730	735
Val Ile Cys Asp Pro Val Val Cys Pro Pro Pro Ser Cys Pro His	740	745	750
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Cys Ala Val Cys Thr Cys Lys Gly Gly Thr Gly Glu Val His Cys	815	820	825
Glu Lys Val Gln Cys Pro Arg Leu Ala Cys Ala Gln Pro Val Arg	830	835	840
Val Asn Pro Thr Asp Cys Cys Lys Gln Cys Pro Val Gly Ser Gly	845	850	855
Ala His Pro Gln Leu Gly Asp Pro Met Gln Ala Asp Gly Pro Arg	860	865	870
Gly Cys Arg Phe Ala Gly Gln Trp Phe Pro Glu Ser Gln Ser Trp	875	880	885
His Pro Ser Val Pro Pro Phe Gly Glu Met Ser Cys Ile Thr Cys	890	895	900
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 tacaactgcc gcagcatcga cagcgagttc agcaatgcca ttgcatccat 2200  
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 ctgattaaaa ctaaagattt gtaatctttt tttggattat ttttcaaaaa 2350  
 gatgagatac tacactcatt taaatatttt taagaaaata aaaagcttaa 2400  
 gaaatttaaa atgctagctg ctcaagagtt ttcagtagaa tatttaagaa 2450  
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[illegible]

&lt;211&gt; 737

<213> Homo Sapien

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Ser Arg Pro Glu Pro Asp Pro Gln His Pro Ala Pro Ala Gly Glu  
65 70 75

Cys Gln Leu Val Ala Asp Pro Cys Ala Ser Asn Pro Cys His His  
95 100 105

16

110	115	120
Cys Ile Cys Asn Glu Gly Tyr Glu Gly	Pro Asn Cys Glu Gln Ala	
125	130	135
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140	145	150
Arg Gln Leu Gln Pro Val Pro Ala Thr	Gln Glu Pro Asp Lys Ile	
155	160	165
Leu Pro Arg Ser Gln Ala Thr Val Thr	Leu Pro Thr Trp Gln Pro	
170	175	180
Lys Thr Gly Gln Lys Val Val Glu Met	Lys Trp Asp Gln Val Glu	
185	190	195
Val Ile Pro Asp Ile Ala Cys Gly Asn	Ala Ser Ser Asn Ser Ser	
200	205	210
Ala Gly Gly Arg Leu Val Ser Phe Glu	Val Pro Gln Asn Thr Ser	
215	220	225
Val Lys Ile Arg Gln Asp Ala Thr Ala	Ser Leu Ile Leu Leu Trp	
230	235	240
Lys Val Thr Ala Thr Gly Phe Gln Gln	Cys Ser Leu Ile Asp Gly	
245	250	255
Arg Ser Val Thr Pro Leu Gln Ala Ser	Gly Gly Leu Val Leu Leu	
260	265	270
Glu Glu Met Leu Ala Leu Gly Asn Asn	His Phe Ile Gly Phe Val	
275	280	285
Asn Asp Ser Val Thr Lys Ser Ile Val	Ala Leu Arg Leu Thr Leu	
290	295	300
Val Val Lys Val Ser Thr Cys Val Pro	Gly Glu Ser His Ala Asn	
305	310	315
Asp Leu Glu Cys Ser Gly Lys Gly Lys	Cys Thr Thr Lys Pro Ser	
320	325	330
Glu Ala Thr Phe Ser Cys Thr Cys Glu	Glu Gln Tyr Val Gly Thr	
335	340	345
Phe Cys Glu Glu Tyr Asp Ala Cys Gln	Arg Lys Pro Cys Gln Asn	
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Asn Ala Ser Cys Ile Asp Ala Asn Glu	Lys Gln Asp Gly Ser Asn	
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Phe Thr Cys Val Cys Leu Pro Gly Tyr	Thr Gly Glu Leu Cys Gln	
380	385	390
Ser Lys Ile Asp Tyr Cys Ile Leu Asp	Pro Cys Arg Asn Gly Ala	
395	400	405

Thr	Cys	Ile	Ser	Ser	Leu	Ser	Gly	Phe	Thr	Cys	Gln	Cys	Pro	Glu
				410					415					420
Gly	Tyr	Phe	Gly	Ser	Ala	Cys	Glu	Glu	Lys	Val	Asp	Pro	Cys	Ala
				425					430					435
Ser	Ser	Pro	Cys	Gln	Asn	Asn	Gly	Thr	Cys	Tyr	Val	Asp	Gly	Val
				440					445					450
His	Phe	Thr	Cys	Asn	Cys	Ser	Pro	Gly	Phe	Thr	Gly	Pro	Thr	Cys
				455					460					465
Ala	Gln	Leu	Ile	Asp	Phe	Cys	Ala	Leu	Ser	Pro	Cys	Ala	His	Gly
				470					475					480
Thr	Cys	Arg	Ser	Val	Gly	Thr	Ser	Tyr	Lys	Cys	Leu	Cys	Asp	Pro
				485					490					495
Gly	Tyr	His	Gly	Leu	Tyr	Cys	Glu	Glu	Glu	Tyr	Asn	Glu	Cys	Leu
				500					505					510
Ser	Ala	Pro	Cys	Leu	Asn	Ala	Ala	Thr	Cys	Arg	Asp	Leu	Val	Asn
				515					520					525
Gly	Tyr	Glu	Cys	Val	Cys	Leu	Ala	Glu	Tyr	Lys	Gly	Thr	His	Cys
				530					535					540
Glu	Leu	Tyr	Lys	Asp	Pro	Cys	Ala	Asn	Val	Ser	Cys	Leu	Asn	Gly
				545					550					555
Ala	Thr	Cys	Asp	Ser	Asp	Gly	Leu	Asn	Gly	Thr	Cys	Ile	Cys	Ala
				560					565					570
Pro	Gly	Phe	Thr	Gly	Glu	Glu	Cys	Asp	Ile	Asp	Ile	Asn	Glu	Cys
				575					580					585
Asp	Ser	Asn	Pro	Cys	His	His	Gly	Gly	Ser	Cys	Leu	Asp	Gln	Pro
				590					595					600
Asn	Gly	Tyr	Asn	Cys	His	Cys	Pro	His	Gly	Trp	Val	Gly	Ala	Asn
				605					610					615
Cys	Glu	Ile	His	Leu	Gln	Trp	Lys	Ser	Gly	His	Met	Ala	Glu	Ser
				620					625					630
Leu	Thr	Asn	Met	Pro	Arg	His	Ser	Leu	Tyr	Ile	Ile	Ile	Gly	Ala
				635					640					645
Leu	Cys	Val	Ala	Phe	Ile	Leu	Met	Leu	Ile	Ile	Leu	Ile	Val	Gly
				650					655					660
Ile	Cys	Arg	Ile	Ser	Arg	Ile	Glu	Tyr	Gln	Gly	Ser	Ser	Arg	Pro
				665					670					675
Ala	Tyr	Glu	Glu	Phe	Tyr	Asn	Cys	Arg	Ser	Ile	Asp	Ser	Glu	Phe
				680					685					690
Ser	Asn	Ala	Ile	Ala	Ser	Ile	Arg	His	Ala	Arg	Phe	Gly	Lys	Lys

695

700

705

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<213> Artificial Sequence

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<210> 18

<211> 508

<212> DNA

<213> Homo Sapien

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aggagatgct cgcccttgggg aataatcact ttattggttt tgtgaatgat 150

tctgtgacta agtctattgt ggctttgcgc ttaactctgg tggatgaagg 200

cagcacctgt gtgcgggggg agagtcacgc aatgacttg gagggttcag 250

gaaaaggaaa atgcaccacg aagccgtcag aggcaacttt ttccctgtacc 300

tgtgaggagc agtacgtggg tactttctgt gaagaatacg atgcttgcca 350

gaggaaacct tgccaaaaca acgcgagctg tattgatgca aatgaaaagc 400

aagatgggag caatttcacc tgtgtttgcc ttccctgggtta tactggagag 450

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taggggag 508

<210> 19

<211> 508

<212> DNA

<213> Homo Sapien

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aggagatgct cgccttgggg aataatcact ttattggttt tgtgaatgat 150

tctgtgacta agtctattgt ggctttgcgc ttaactctgg tggatgaagg 200

cagcacctgt gtgcggggg agagtcacgc aaatgacttg gagtgttcag 250

gaaaaggaaa atgcaccacg aagccgtcag aggcaacttt ttctgtacc 300

tgtgaggagc agtacgtggg tactttctgt gaagaatacg atgcttgcca 350

gaggaaacct tgccaaaaca acgcgagctg tattgatgca aatgaaaagc 400

aagatgggag caatttcacc tgtgtttgcc ttctgggta tactggagag 450

ctttgccaac cgaactgaga ttggagcgaa cgacctacac cgaactgaga 500

taggggag 508

<210> 20

<211> 23

<212> DNA

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<220>

<223> Synthetic Oligonucleotide Probe

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<210> 21

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

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<210> 22

<211> 69

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[illegible]

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<212> DNA

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cagcaccacg qgcctgcaag agcaggcacg qgcctgatg cgggacttcc 200

cgctcgtgga cggccacaac gacctgcccc tggtcctaag qcaggtttac 250

cagaaagggc tacagqatgt taacctgcgc aatttcagct acqcccagac 300

cagcctggac aggcttagag atggcctcgt gggcgcccaq ttctggtcag 350

cctatgtgcc atgccagacc caggaccggg atgccctgcg cctcaccctg 400

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gcttgtgacc tcggetaaag ctctgaacga cactcagaaa ttggcctgcc 500

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ataccgggtc ctgatagagg agttgctgag tcgtggctgg agtgaggaag 1100

agcttcaggg tgtccttcgt ggaaacctgc tgcgggtctt caqacaaqtg 1150





Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	12.3%
Divorced	5.2%
Widowed	4.0%
Education level	
High school or less	65.8%
College	25.5%
Postgraduate	8.7%
Occupation	
Professional	32.1%
Managerial	18.9%
Technical	15.4%
Service	22.3%
Unemployed	11.3%
Income (USD/month)	
< 500	15.2%
500-1000	35.8%
1000-1500	28.5%
> 1500	20.5%
Health insurance	
Yes	85.3%
No	14.7%
Smoking status	
Smoker	28.9%
Non-smoker	71.1%
Alcohol consumption	
Regular	12.5%
Occasional	35.2%
Never	52.3%
Family size	
1-2	45.8%
3-4	38.5%
5-6	12.3%
> 6	3.4%

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<213> Art:

<220>

<223> Synthetic oligonucleotide probe

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<210> 27

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<210> 28

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 28

gagcagattg acctcatacg ccgcatgtgt gcctcctatt ctgagctgga 50

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<211> 1416

<212> DNA

<213> Homo Sapien

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cgaccacact cagtagtccc agcaccacagg gcctgcaaga gcaggcacgg 150

gccctgatgc gggacttccc gctcgtggac qgccacaacq acctgccccct 200

ggtcctaagg caggtttacc agaaaggggt acaggatggt aacctgcgca 250

atttcagcta cggccagacc agcctggaca ggcttagaga tggcctcgtg 300

ggcgcccagt tctggtcagc ctatgtgcc tggcagacc aggaccggga 350

tgccctgcgc ctcaccctgg agcagattga cctcatagcg cgcattgtgtg 400



	50		55		60
Tyr Gly Gln Thr	Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly				
	65		70		75
Ala Gln Phe Trp	Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg				
	80		85		90
Asp Ala Leu Arg	Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg				
	95		100		105
Met Cys Ala Ser	Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys				
	110		115		120
Ala Leu Asn Asp	Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu				
	125		130		135
Gly Gly His Ser	Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe				
	140		145		150
Tyr Met Leu Gly	Val Arg Tyr Leu Thr Leu Thr His Thr Cys Asn				
	155		160		165
Thr Pro Trp Ala	Glu Ser Ser Ala Lys Gly Val His Ser Phe Tyr				
	170		175		180
Asn Asn Ile Ser	Gly Leu Thr Asp Phe Gly Glu Lys Val Val Ala				
	185		190		195
Glu Met Asn Arg	Leu Gly Met Met Val Asp Leu Ser His Val Ser				
	200		205		210
Asp Ala Val Ala	Arg Arg Ala Leu Glu Val Ser Gln Ala Pro Val				
	215		220		225
Ile Phe Ser His	Ser Ala Ala Arg Gly Val Cys Asn Ser Ala Arg				
	230		235		240
Asn Val Pro Asp	Asp Ile Leu Gln Leu Leu Lys Lys Asn Gly Gly				
	245		250		255
Val Val Met Val	Ser Leu Ser Met Gly Val Ile Gln Cys Asn Pro				
	260		265		270
Ser Ala Asn Val	Ser Thr Val Ala Asp His Phe Asp His Ile Lys				
	275		280		285
Ala Val Ile Gly	Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr Asp				
	290		295		300
Gly Ala Gly Lys	Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr				
	305		310		315
Pro Val Leu Ile	Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu				
	320		325		330
Glu Leu Gln Gly	Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg				
	335		340		345

Variable	Mean	SD	Min	Max
Age	34.5	10.5	18	65
Gender	50% Male			
Marital status	65% Married			
Education	12.5 years	2.5	8	16
Income	\$35,000	\$15,000	\$10,000	\$70,000
Occupation	35% Managerial			
Health status	75% Good			
Stress level	4.5	1.5	1	7
Life satisfaction	5.5	1.5	1	7
Work-life balance	4.0	1.0	1	5
Family support	6.0	1.0	1	7
Community involvement	3.0	1.0	1	4
Volunteer hours	2.0	1.0	0	4
Charitable donations	\$100	\$50	\$0	\$200
Political participation	1.0	1.0	0	2
Civic engagement	2.0	1.0	0	3
Neighborhood safety	4.0	1.0	1	5
Local government responsiveness	3.0	1.0	1	4
Community resources	4.0	1.0	1	5
Local business development	3.0	1.0	1	4
Community health initiatives	2.0	1.0	0	3
Local education quality	4.0	1.0	1	5
Community infrastructure	3.0	1.0	1	4
Local government transparency	2.0	1.0	0	3
Community participation in decision-making	3.0	1.0	1	4
Local government accountability	2.0	1.0	0	3
Community health and safety	4.0	1.0	1	5
Local government effectiveness	3.0	1.0	1	4
Community development projects	2.0	1.0	0	3
Local government responsiveness to community needs	3.0	1.0	1	4
Community health and safety initiatives	2.0	1.0	0	3
Local government transparency and accountability	2.0	1.0	0	3
Community participation in local government	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues	3.0	1.0	1	4
Community health and safety measures	2.0	1.0	0	3
Local government responsiveness to community concerns	3.0	1.0	1	4
Community development and improvement projects	2.0	1.0	0	3
Local government transparency and accountability measures	2.0	1.0	0	3
Community participation in local government decision-making	2.0	1.0	0	3
Local government effectiveness in addressing community issues				

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365	370	375
Lys His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln		
380	385	390
Trp Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln Asp		
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Glu Gly Ile Leu Pro Ser Gly Arg Arg Gly Thr Ala Arg Gly Pro		
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Ala Arg		

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His	Pro	Gly	Leu	Pro	Gly	Thr	Pro	Gly	His	His	Gly	Ser	Gln	Gly	35	40	45
Leu	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Ala	Pro	Gly	50	55	60
Ala	Pro	Gly	Glu	Lys	Gly	Glu	Gly	Gly	Arg	Pro	Gly	Leu	Pro	Gly	65	70	75
Pro	Arg	Gly	Asp	Pro	Gly	Pro	Arg	Gly	Glu	Ala	Gly	Pro	Ala	Gly	80	85	90
Pro	Thr	Gly	Pro	Ala	Gly	Glu	Cys	Ser	Val	Pro	Pro	Arg	Ser	Ala	95	100	105
Phe	Ser	Ala	Lys	Arg	Ser	Glu	Ser	Arg	Val	Pro	Pro	Pro	Ser	Asp	110	115	120
Ala	Pro	Leu	Pro	Phe	Asp	Arg	Val	Leu	Val	Asn	Glu	Gln	Gly	His	125	130	135
Tyr	Asp	Ala	Val	Thr	Gly	Lys	Phe	Thr	Cys	Gln	Val	Pro	Gly	Val	140	145	150
Tyr	Tyr	Phe	Ala	Val	His	Ala	Thr	Val	Tyr	Arg	Ala	Ser	Leu	Gln	155	160	165
Phe	Asp	Leu	Val	Lys	Asn	Gly	Glu	Ser	Ile	Ala	Ser	Phe	Phe	Gln	170	175	180
Phe	Phe	Gly	Gly	Trp	Pro	Lys	Pro	Ala	Ser	Leu	Ser	Gly	Gly	Ala	185	190	195
Met	Val	Arg	Leu	Glu	Pro	Glu	Asp	Gln	Val	Trp	Val	Gln	Val	Gly	200	205	210
Val	Gly	Asp	Tyr	Ile	Gly	Ile	Tyr	Ala	Ser	Ile	Lys	Thr	Asp	Ser	215	220	225
Thr	Phe	Ser	Gly	Phe	Leu	Val	Tyr	Ser	Asp	Trp	His	Ser	Ser	Pro	230	235	240
Val	Phe	Ala															

<210> 43  
 <211> 24

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 43  
 tacaggccca gtcaggacca gggg 24  
  
 <210> 44  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 44  
 agccagcctc gctctcgg 18  
  
 <210> 45  
 <211> 18  
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 <213> Artificial Sequence  
  
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 <223> Synthetic oligonucleotide probe  
  
 <400> 45  
 gtctgcgatc aggtctgg 18  
  
 <210> 46  
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 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 46  
 gaaagaggca atggattcgc 20  
  
 <210> 47  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic oligonucleotide probe  
  
 <400> 47  
 gattacact tgccagcaca gcac 24  
  
 <210> 48  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence



Variable	Mean	Standard deviation	Minimum	Maximum
Age	30.2	10.5	18	55
Gender	0.5	0.5	0	1
Marital status	0.4	0.5	0	1
Education	12.5	2.5	9	16
Income	1.2	0.8	0.5	2.5
Health status	1.5	0.5	1	2
Life satisfaction	4.5	1.5	1	7
Work satisfaction	3.5	1.5	1	7
Family satisfaction	4.0	1.5	1	7
Community satisfaction	3.0	1.5	1	7
Overall satisfaction	3.5	1.5	1	7

<223> Synthetic oligonucleotide probe

<400> 48

ggagcaccac caactggagg gtccggagta gcgagcgccc cgaag 45

<210> 49

<211> 1876

<212> DNA

<213> Homo Sapien

<400> 49

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atccagcctg agaaacaagc cgggtggctg agccaggctg tgcacggagc 100  
acctgacggg cccaacagac ccatgctgca tccagagacc tccctggcc 150  
gggggcatct cctggctgtg ctctggccc tcttggcac cacctgggca 200  
gaggtgtggc caccagct gcaggagcag gctccgatgg ccggagccct 250  
gaacaggaag gagagtttct tgetctctc cctgcacaac cgctgcgca 300  
gctgggtcca gccccctgcg gctgacatgc ggaggctgga ctggagtgc 350  
agcctggccc aactggctca agccagggca gccctctgtg gaatcccaac 400  
cccgagcctg gcatccggcc tgtggcgcac cctgcaagtg ggctggaaca 450  
tgcagctgct gcccgcgggc ttggcgctct ttgttgaagt ggtcagccta 500  
tggtttgag aggggcagcg gtacagccac ggggcaggag agtgtgctcg 550  
caacgccacc tgcacccact acacgcagct cgtgtgggccc acctcaagcc 600  
agctgggctg tgggcggcac ctgtgctctg caggccagac agcgatagaa 650  
gcctttgtct gtgcctactc ccccgagggc aactgggagg tcaacgggaa 700  
gacaatcatc ccctataaga aggggtgcctg gtgttcgctc tgcacagcca 750  
gtgtctcagg ctgcttcaaa gcctgggacc atgcaggggg gctctgtgag 800  
gtcccagga atccttgtcg catgagctgc cagaaccatg gacgtctcaa 850  
catcagcacc tgccactgcc actgtcccc tggtacacg ggcagatact 900  
gccaagtgcg gtgcagcctg cagtgtgtgc acggccgggt ccgggaggag 950  
gagtgtcgt gcgtctgtga catcggtac gggggagccc agtgtgccac 1000  
caagggtgcat tttcccttcc acacctgtga cctgaggatc gacggagact 1050  
gcttcatggg gtcttcagag gcagacacct attacagagc caggatgaaa 1100  
tgtcagagga aaggcggggt gctgccccag atcaaaqcc aaaaagtqca 1150

General information		Age (years)		Gender		Education (years)		Occupation		Marital status		Religion		Ethnicity		Mental health		Physical health		Social support		Life satisfaction	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18						

<211> 455

<213> Homo Sapien

Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala  
1 5 10 15

Pro Gln Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg  
35 40 45

Lys Glu Ser Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser  
50 55 60

Trp Val Gln Pro Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser  
65 70 75

Asp Ser Leu Ala Gln Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly  
80 85 90

Ile Pro Thr Pro Ser Leu Ala Ser Gly Leu Trp Arg Thr Leu Gln  
95 100 105

38

				110					115					120
Val	Glu	Val	Val	Ser 125	Leu	Trp	Phe	Ala	Glu 130	Gly	Gln	Arg	Tyr	Ser 135
His	Ala	Ala	Gly	Glu 140	Cys	Ala	Arg	Asn	Ala 145	Thr	Cys	Thr	His	Tyr 150
Thr	Gln	Leu	Val	Trp 155	Ala	Thr	Ser	Ser	Gln 160	Leu	Gly	Cys	Gly	Arg 165
His	Leu	Cys	Ser	Ala 170	Gly	Gln	Thr	Ala	Ile 175	Glu	Ala	Phe	Val	Cys 180
Ala	Tyr	Ser	Pro	Gly 185	Gly	Asn	Trp	Glu	Val 190	Asn	Gly	Lys	Thr	Ile 195
Ile	Pro	Tyr	Lys	Lys 200	Gly	Ala	Trp	Cys	Ser 205	Leu	Cys	Thr	Ala	Ser 210
Val	Ser	Gly	Cys	Phe 215	Lys	Ala	Trp	Asp	His 220	Ala	Gly	Gly	Leu	Cys 225
Glu	Val	Pro	Arg	Asn 230	Pro	Cys	Arg	Met	Ser 235	Cys	Gln	Asn	His	Gly 240
Arg	Leu	Asn	Ile	Ser 245	Thr	Cys	His	Cys	His 250	Cys	Pro	Pro	Gly	Tyr 255
Thr	Gly	Arg	Tyr	Cys 260	Gln	Val	Arg	Cys	Ser 265	Leu	Gln	Cys	Val	His 270
Gly	Arg	Phe	Arg	Glu 275	Glu	Glu	Cys	Ser	Cys 280	Val	Cys	Asp	Ile	Gly 285
Tyr	Gly	Gly	Ala	Gln 290	Cys	Ala	Thr	Lys	Val 295	His	Phe	Pro	Phe	His 300
Thr	Cys	Asp	Leu	Arg 305	Ile	Asp	Gly	Asp	Cys 310	Phe	Met	Val	Ser	Ser 315
Glu	Ala	Asp	Thr	Tyr 320	Tyr	Arg	Ala	Arg	Met 325	Lys	Cys	Gln	Arg	Lys 330
Gly	Gly	Val	Leu	Ala 335	Gln	Ile	Lys	Ser	Gln 340	Lys	Val	Gln	Asp	Ile 345
Leu	Ala	Phe	Tyr	Leu 350	Gly	Arg	Leu	Glu	Thr 355	Thr	Asn	Glu	Val	Thr 360
Asp	Ser	Asp	Phe	Glu 365	Thr	Arg	Asn	Phe	Trp 370	Ile	Gly	Leu	Thr	Tyr 375
Lys	Thr	Ala	Lys	Asp 380	Ser	Phe	Arg	Trp	Ala 385	Thr	Gly	Glu	His	Gln 390
Ala	Phe	Thr	Ser	Phe 395	Ala	Phe	Gly	Gln	Pro 400	Asp	Asn	His	Gly	Leu 405

Val Trp Leu Ser Ala Ala Met Gly Phe Gly Asn Cys Val Glu Leu  
 410 415 420

Gln Ala Ser Ala Ala Phe Asn Trp Asn Asp Gln Arg Cys Lys Thr  
 425 430 435

Arg Asn Arg Tyr Ile Cys Gln Phe Ala Gln Glu His Ile Ser Arg  
 440 445 450

Trp Gly Pro Gly Ser  
 455

<210> 51

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 51

aggaacttct ggatcgggct cacc 24

<210> 52

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 52

gggtctgggc caggtggaag agag 24

<210> 53

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 53

gccaaggact ccttccgctg ggccacaggg gagcaccagg ccttc 45

<210> 54

<211> 2331

<212> DNA

<213> Homo Sapien

<400> 54

cggacgcgtg ggctgggccc tgcaaagcgt gtcccgcggg gtccccgagc 50

gtcccgcgcc ctgcggccgc catgtcctg ctgctggggc tgtgcctggg 100

gctgtccctg tgtgtggggg cgcaggaaga ggccgagagc tggggccact 150

cttcggagca ggatggactc aggggtcccg ggcaagtcag actgttgagc 200

aggctgaaaa ccaaaccctt gatgacagaa ttctcagtga agtctaccat 250  
catttcccggt tatgccttca ctacgggttct ctgcagaatg ctgaacagag 300  
cttctgaaga ccaggacatt gagttccaga tgcagattcc agctgcagct 350  
ttcatcacca acttcactat gcttattgga gacaagggtgt atcagggcga 400  
aattacagag agagaaaaga agagtgggtga tagggtaaaa gagaaaagga 450  
ataaaaccac agaagaaaat ggagagaagg ggactgaaat attcagagct 500  
tctgcagtga ttcccagcaa ggacaaagcc gcctttttcc tgagttatga 550  
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gtacaacaag ccaggattgc ccagaatgga attttgggag actttatcat 850  
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gtacattcac catatgtcac ccactggagg cacagacatc aacggggccc 1200  
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aatcaggac cccgctcctc tctgacatcc gcacgatta tccccccagc 1550  
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ggagatcatc attgcgggga agctgggtgga caggaagctg gatcacctgc 1650

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 ggagctacct caccacaaag gagctgctga gctcctggct gcaaagtgac 1850  
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 gagctaccgc ttcctcactc ccttcacctc catgaagctg agggggccgg 1950  
 tcccacgcat ggatggcctg gaggaggccc acggcatgtc ggctgccatg 2000  
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 aaaaaagaca tgggagagat ggtgtttttc ctctccacca cctggggata 2150  
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 ccatgtctgc tggcaccttg atcttggacc tcccagcctc cagaactgtg 2250  
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<210> 55

<211> 694

<212> PRT

<213> Homo Sapien

<400> 55

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Gly	Ser	Gln	Glu	Glu	Ala	Gln	Ser	Trp	Gly	His	Ser	Ser	Glu	Gln
			20						25					30
Asp	Gly	Leu	Arg	Val	Pro	Arg	Gln	Val	Arg	Leu	Leu	Gln	Arg	Leu
			35						40					45
Lys	Thr	Lys	Pro	Leu	Met	Thr	Glu	Phe	Ser	Val	Lys	Ser	Thr	Ile
			50						55					60
Ile	Ser	Arg	Tyr	Ala	Phe	Thr	Thr	Val	Ser	Cys	Arg	Met	Leu	Asn
			65						70					75
Arg	Ala	Ser	Glu	Asp	Gln	Asp	Ile	Glu	Phe	Gln	Met	Gln	Ile	Pro
			80						85					90
Ala	Ala	Ala	Phe	Ile	Thr	Asn	Phe	Thr	Met	Leu	Ile	Gly	Asp	Lys
			95						100					105
Val	Tyr	Gln	Gly	Glu	Ile	Thr	Glu	Arg	Glu	Lys	Lys	Ser	Gly	Asp
			110						115					120

Arg Val Lys Glu Lys Arg Asn Lys Thr Thr Glu Glu Asn Gly Glu	125	130	135
Lys Gly Thr Glu Ile Phe Arg Ala Ser Ala Val Ile Pro Ser Lys	140	145	150
Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu Glu Leu Leu Gln Arg	155	160	165
Arg Leu Gly Lys Tyr Glu His Ser Ile Ser Val Arg Pro Gln Gln	170	175	180
Leu Ser Gly Arg Leu Ser Val Asp Val Asn Ile Leu Glu Ser Ala	185	190	195
Gly Ile Ala Ser Leu Glu Val Leu Pro Leu His Asn Ser Arg Gln	200	205	210
Arg Gly Ser Gly Arg Gly Glu Asp Asp Ser Gly Pro Pro Pro Ser	215	220	225
Thr Val Ile Asn Gln Asn Glu Thr Phe Ala Asn Ile Ile Phe Lys	230	235	240
Pro Thr Val Val Gln Gln Ala Arg Ile Ala Gln Asn Gly Ile Leu	245	250	255
Gly Asp Phe Ile Ile Arg Tyr Asp Val Asn Arg Glu Gln Ser Ile	260	265	270
Gly Asp Ile Gln Val Leu Asn Gly Tyr Phe Val His Tyr Phe Ala	275	280	285
Pro Lys Asp Leu Pro Pro Leu Pro Lys Asn Val Val Phe Val Leu	290	295	300
Asp Ser Ser Ala Ser Met Val Gly Thr Lys Leu Arg Gln Thr Lys	305	310	315
Asp Ala Leu Phe Thr Ile Leu His Asp Leu Arg Pro Gln Asp Arg	320	325	330
Phe Ser Ile Ile Gly Phe Ser Asn Arg Ile Lys Val Trp Lys Asp	335	340	345
His Leu Ile Ser Val Thr Pro Asp Ser Ile Arg Asp Gly Lys Val	350	355	360
Tyr Ile His His Met Ser Pro Thr Gly Gly Thr Asp Ile Asn Gly	365	370	375
Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr Val Ala His	380	385	390
Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu Thr	395	400	405
Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu			

[illegible]



<210> 56  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 56  
gtgggaacca aactccggca gacc 24

<210> 57  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 57  
cacatcgagc gtctctgg 18

<210> 58  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 58  
agccgctcct tctccggttc atcg 24

<210> 59  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide probe

<400> 59  
tggaaggacc acttgatc agtcactcca gacagcatca gggatggg 48

<210> 60  
<211> 1413  
<212> DNA  
<213> Homo Sapien

<400> 60  
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ccagtgtgcg gcggcagcgg cggcggcggc gcctcccggg ctccggcttc 100  
tgctgttgct cttctccgcc gcggcactga tccccacagg tgatgggcag 150  
aatctgttta cgaaagacgt gacagtgatc gagggagagg ttgcgaccat 200



cagttgccaa gtcaataaga gtgacgactc tgtgattcag ctactgaatc 250  
ccaacaggca gaccatztat ttcagggact tcaggccttt gaaggacagc 300  
aggtttcagt tgctgaatzt ttctagcagt gaactcaaag tatcattgac 350  
aaacgtctca atttctgatg aaggaagata cttttgccag ctctataaccg 400  
atccccaca ggaaagtac accaccatca cagtcctggg cccaccacgt 450  
aatctgatga tcgatatcca gaaagacact gcggtggaag gtgaggagat 500  
tgaagtcaac tgcactgcta tggccagcaa gccagccaag actatcaggt 550  
ggttcaaagg gaacacagag ctaaaaggca aatcggaggt ggaagagtgg 600  
tcagacatgt acactgtgac cagtcagctg atgctgaagg tgcacaagga 650  
ggacgatggg gtcccagtga tctgccaggt ggagcaccct gcggtcactg 700  
gaaacctgca gaccagcgg tatctagaag tacagtataa gcctcaagtg 750  
cacattcaga tgacttatcc tctacaaggc ttaaccggg aaggggacgc 800  
gcttgagtta acatgtgaag ccatcgggaa gcccagcct gtgatggtaa 850  
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accaccacca ccaccaccac caccatcctt accatcatca cagattcccg 1100  
agcaggtgaa gaaggctcga tcagggcagt ggatcatgcc gtgatcgggtg 1150  
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gggcgtatt ttgccagaca taaaggatca tacttcactc atgaagccaa 1250  
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gaggacagaa caactccgaa gaaaagaaaag agtacttcat ctagatcagc 1350  
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<210> 61

<211> 440

<212> PRT

<213> Homo Sapien

<400> 61

Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala  
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Ala Ala Ala Ala Ala	Pro Pro Gly Leu Arg	Leu Leu Leu Leu Leu	20	25	30
Phe Ser Ala Ala Ala	Leu Ile Pro Thr Gly	Asp Gly Gln Asn Leu	35	40	45
Phe Thr Lys Asp Val	Thr Val Ile Glu Gly	Glu Val Ala Thr Ile	50	55	60
Ser Cys Gln Val Asn	Lys Ser Asp Asp Ser	Val Ile Gln Leu Leu	65	70	75
Asn Pro Asn Arg Gln	Thr Ile Tyr Phe Arg	Asp Phe Arg Pro Leu	80	85	90
Lys Asp Ser Arg Phe	Gln Leu Leu Asn Phe	Ser Ser Ser Glu Leu	95	100	105
Lys Val Ser Leu Thr	Asn Val Ser Ile Ser	Asp Glu Gly Arg Tyr	110	115	120
Phe Cys Gln Leu Tyr	Thr Asp Pro Pro Gln	Glu Ser Tyr Thr Thr	125	130	135
Ile Thr Val Leu Val	Pro Pro Arg Asn Leu	Met Ile Asp Ile Gln	140	145	150
Lys Asp Thr Ala Val	Glu Gly Glu Glu Ile	Glu Val Asn Cys Thr	155	160	165
Ala Met Ala Ser Lys	Pro Ala Thr Thr Ile	Arg Trp Phe Lys Gly	170	175	180
Asn Thr Glu Leu Lys	Gly Lys Ser Glu Val	Glu Glu Trp Ser Asp	185	190	195
Met Tyr Thr Val Thr	Ser Gln Leu Met Leu	Lys Val His Lys Glu	200	205	210
Asp Asp Gly Val Pro	Val Ile Cys Gln Val	Glu His Pro Ala Val	215	220	225
Thr Gly Asn Leu Gln	Thr Gln Arg Tyr Leu	Glu Val Gln Tyr Lys	230	235	240
Pro Gln Val His Ile	Gln Met Thr Tyr Pro	Leu Gln Gly Leu Thr	245	250	255
Arg Glu Gly Asp Ala	Leu Glu Leu Thr Cys	Glu Ala Ile Gly Lys	260	265	270
Pro Gln Pro Val Met	Val Thr Trp Val Arg	Val Asp Asp Glu Met	275	280	285
Pro Gln His Ala Val	Leu Ser Gly Pro Asn	Leu Phe Ile Asn Asn	290	295	300
Leu Asn Lys Thr Asp	Asn Gly Thr Tyr Arg	Cys Glu Ala Ser Asn			



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<211> 24  
<212> DNA  
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<220>  
<223> Synthetic oligonucleotide probe

<400> 65  
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<210> 66  
<211> 24  
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<220>  
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<400> 66  
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<212> DNA  
<213> Homo Sapien

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 <213> Homo Sapien

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 Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr  
 35 40 45  
 Val Pro Arg Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe  
 50 55 60  
 Glu Asn Gly Ile Thr Met Leu Asp Ala Ser Ser Phe Ala Gly Leu  
 65 70 75  
 Pro Gly Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser  
 80 85 90  
 Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu Ser His Asn Ser  
 95 100 105  
 Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala Asn Val Glu

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Leu	Phe	Ser	Arg	Leu 140	Arg	Asn	Leu	His	Asp 145	Leu	Asp	Val	Ser	Asp 150
Asn	Gln	Leu	Glu	Arg 155	Val	Pro	Pro	Val	Ile 160	Arg	Gly	Leu	Arg	Gly 165
Leu	Thr	Arg	Leu	Arg 170	Leu	Ala	Gly	Asn	Thr 175	Arg	Ile	Ala	Gln	Leu 180
Arg	Pro	Glu	Asp	Leu 185	Ala	Gly	Leu	Ala	Ala 190	Leu	Gln	Glu	Leu	Asp 195
Val	Ser	Asn	Leu	Ser 200	Leu	Gln	Ala	Leu	Pro 205	Gly	Asp	Leu	Ser	Gly 210
Leu	Phe	Pro	Arg	Leu 215	Arg	Leu	Leu	Ala	Ala 220	Ala	Arg	Asn	Pro	Phe 225
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Ser	His	Val	Thr	Leu 245	Ala	Ser	Pro	Glu	Glu 250	Thr	Arg	Cys	His	Phe 255
Pro	Pro	Lys	Asn	Ala 260	Gly	Arg	Leu	Leu	Leu 265	Glu	Leu	Asp	Tyr	Ala 270
Asp	Phe	Gly	Cys	Pro 275	Ala	Thr	Thr	Thr	Thr 280	Ala	Thr	Val	Pro	Thr 285
Thr	Arg	Pro	Val	Val 290	Arg	Glu	Pro	Thr	Ala 295	Leu	Ser	Ser	Ser	Leu 300
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Phe	Thr	Gly	Leu	Tyr 365	Cys	Glu	Ser	Gln	Met 370	Gly	Gln	Gly	Thr	Arg 375
Pro	Ser	Pro	Thr	Pro 380	Val	Thr	Pro	Arg	Pro 385	Pro	Arg	Ser	Leu	Thr 390
Leu	Gly	Ile	Glu	Pro 395	Val	Ser	Pro	Thr	Ser 400	Leu	Arg	Val	Gly	Leu 405



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Arg	Pro	Asn	Ala	Thr	Tyr	Ser	Val	Cys	Val	Met	Pro	Leu	Gly	Pro	455	460	465
Gly	Arg	Val	Pro	Glu	Gly	Glu	Glu	Ala	Cys	Gly	Glu	Ala	His	Thr	470	475	480
Pro	Pro	Ala	Val	His	Ser	Asn	His	Ala	Pro	Val	Thr	Gln	Ala	Arg	485	490	495
Glu	Gly	Asn	Leu	Pro	Leu	Leu	Ile	Ala	Pro	Ala	Leu	Ala	Ala	Val	500	505	510
Leu	Leu	Ala	Ala	Leu	Ala	Ala	Val	Gly	Ala	Ala	Tyr	Cys	Val	Arg	515	520	525
Arg	Gly	Arg	Ala	Met	Ala	Ala	Ala	Ala	Gln	Asp	Lys	Gly	Gln	Val	530	535	540
Gly	Pro	Gly	Ala	Gly	Pro	Leu	Glu	Leu	Glu	Gly	Val	Lys	Val	Pro	545	550	555
Leu	Glu	Pro	Gly	Pro	Lys	Ala	Thr	Glu	Gly	Gly	Gly	Glu	Ala	Leu	560	565	570
Pro	Ser	Gly	Ser	Glu	Cys	Glu	Val	Pro	Leu	Met	Gly	Phe	Pro	Gly	575	580	585
Pro	Gly	Leu	Gln	Ser	Pro	Leu	His	Ala	Lys	Pro	Tyr	Ile			590	595	

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<210> 72

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 72

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<210> 73

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 73

aggactgccc accgtccacc tgcctcaatg ggggcacatg ccacc 45

<210> 74

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 74

acgcaaagcc ctacatctaa gccagagaga gacagggcag ctggg 45

<210> 75

<211> 1077

<212> DNA

<213> Homo Sapien

<400> 75

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tggcagagtc tcccggagca gagttccgat gccctggaag cctggggagaa 400





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<211> 281

<212> PRT

<213> Homo Sapien

<400> 78

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Gln	Gly	Glu	Gln	Gln	Glu	Trp	Glu	Gly	Thr	Glu	Glu	Leu	Pro	Ser
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Pro	Pro	Asp	His	Ala	Glu	Arg	Ala	Glu	Glu	Gln	His	Glu	Lys	Tyr
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Arg	Pro	Ser	Gln	Asp	Gln	Gly	Leu	Pro	Ala	Ser	Arg	Cys	Leu	Arg
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Cys	Cys	Asp	Pro	Gly	Thr	Ser	Met	Tyr	Pro	Ala	Thr	Ala	Val	Pro
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Gln	Ile	Asn	Ile	Thr	Ile	Leu	Lys	Gly	Glu	Lys	Gly	Asp	Arg	Gly
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Gly Arg Lys Lys Pro Met His Ser Asn His Tyr Tyr Gln Thr Val		
155	160	165
Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp His Phe Asn Met		
170	175	180
Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu Tyr Phe Phe		
185	190	195
Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr Leu His		
200	205	210
Ile Met Lys Asn Glu Glu Glu Val Val Ile Leu Phe Ala Gln Val		
215	220	225
Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu		
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Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg		
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Ser Gly Tyr Leu Val Lys His Ala Thr Glu Pro		
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<400> 80  
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<210> 81

<211> 45  
<212> DNA  
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<213> Homo Sapien

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Lys	Lys	Ser	Leu	Glu 35	Asp	Val	Val	Ile	Asp 40	Ile	Gln	Ser	Ser	Leu 45
Ser	Lys	Gly	Ile	Arg 50	Gly	Asn	Glu	Pro	Val 55	Tyr	Thr	Ser	Thr	Gln 60
Glu	Asp	Cys	Ile	Asn 65	Ser	Cys	Cys	Ser	Thr 70	Lys	Asn	Ile	Ser	Gly 75
Asp	Lys	Ala	Cys	Asn 80	Leu	Met	Ile	Phe	Asp 85	Thr	Arg	Lys	Thr	Ala 90
Arg	Gln	Pro	Asn	Cys 95	Tyr	Leu	Phe	Phe	Cys 100	Pro	Asn	Glu	Glu	Ala 105
Cys	Pro	Leu	Lys	Pro 110	Ala	Lys	Gly	Leu	Met 115	Ser	Tyr	Arg	Ile	Ile 120
Thr	Asp	Phe	Pro	Ser 125	Leu	Thr	Arg	Asn	Leu 130	Pro	Ser	Gln	Glu	Leu 135
Pro	Gln	Glu	Asp	Ser 140	Leu	Leu	His	Gly	Gln 145	Phe	Ser	Gln	Ala	Val 150
Thr	Pro	Leu	Ala	His 155	His	His	Thr	Asp	Tyr 160	Ser	Lys	Pro	Thr	Asp 165
Ile	Ser	Trp	Arg	Asp 170	Thr	Leu	Ser	Gln	Lys 175	Phe	Gly	Ser	Ser	Asp 180
His	Leu	Glu	Lys	Leu 185	Phe	Lys	Met	Asp	Glu 190	Ala	Ser	Ala	Gln	Leu 195
Leu	Ala	Tyr	Lys	Glu 200	Lys	Gly	His	Ser	Gln 205	Ser	Ser	Gln	Phe	Ser 210
Ser	Asp	Gln	Glu	Ile 215	Ala	His	Leu	Leu	Pro 220	Glu	Asn	Val	Ser	Ala 225
Leu	Pro	Ala	Thr	Val 230	Ala	Val	Ala	Ser	Pro 235	His	Thr	Thr	Ser	Ala 240
Thr	Pro	Lys	Pro	Ala 245	Thr	Leu	Leu	Pro	Thr 250	Asn	Ala	Ser	Val	Thr 255
Pro	Ser	Gly	Thr	Ser 260	Gln	Pro	Gln	Leu	Ala 265	Thr	Thr	Ala	Pro	Pro 270
Val	Thr	Thr	Val	Thr 275	Ser	Gln	Pro	Pro	Thr 280	Thr	Leu	Ile	Ser	Thr 285
Val	Phe	Thr	Arg	Ala 290	Ala	Ala	Thr	Leu	Gln 295	Ala	Met	Ala	Thr	Thr 300
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tgggagaaca gctgggaaat gttgccagag gaataaacat tgccattgtc 350  
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aatccctgct cttcatgggtg acctatgacg acggaagcac aagactgaat 500

1. Personal details	
Age	18-25
Sex	Male
Marital status	Single
Occupation	Student
2. Academic details	
Year	1st
Subject	Mathematics
Grade	A
3. Financial details	
Income	£10,000
Expenses	£5,000
Savings	£3,000
Debt	£2,000
4. Health details	
Weight	70 kg
Height	1.75 m
Blood pressure	120/80 mmHg
Cholesterol	200 mg/dL
5. Lifestyle details	
Smoking	Non-smoker
Alcohol	Occasional
Exercise	Regular
Stress	Low
6. Social details	
Friends	5
Family	2
Community	1
7. Other details	
Interests	Reading, Music
Skills	Programming, Writing
Goals	Graduate with Honours
Challenges	Time management
Strengths	Hardworking, Creative
Weaknesses	Overthinking, Perfectionism
Values	Integrity, Innovation
Beliefs	Hard work pays off
Attitudes	Optimistic, Resilient
Emotions	Happy, Proud
Personality	Introverted, Analytical
Character	Honest, Responsible
Reputation	Respected, Capable
Legacy	Knowledge, Skills
Impact	Positive, Inspiring
Contribution	Academic, Social
Role	Student, Friend
Identity	Student, Individual
Existence	Present, Future
Reality	Complex, Multifaceted
Truth	Subjective, Relative
Justice	Fair, Equitable
Love	Respect, Understanding
Life	Meaningful, Fulfilling
Death	Acceptance, Transition
Afterlife	Uncertain, Hopeful
Universe	Vast, Mysterious
Humanity	Complex, Diverse
Progress	Continuous, Evolving
Change	Inevitable, Transformative
Time	Linear, Subjective
Space	Boundless, Expansive
Energy	Powerful, Dynamic
Information	Essential, Valuable
Knowledge	Powerful, Liberating
Wisdom	Deep, Insightful
Experience	Enriching, Educational
Learning	Continuous, Lifelong
Growth	Personal, Professional
Success	Meaningful, Achievable
Failure	Learning, Resilience
Hope	Optimistic, Inspiring
Faith	Believing, Trusting
Love	Compassionate, Kind
Peace	Harmonious, Calm
Justice	Fair, Right
Truth	Honest, Authentic
Beauty	Appreciated, Cherished
Good	Positive, Beneficial
Evil	Negative, Harmful
Light	Bright, Illuminating
Dark	Shadowy, Mysterious
Life	Alive, Growing
Death	End, Transition
Afterlife	Unknown, Hopeful
Universe	Vast, Infinite
Humanity	Complex, Wonderful
Progress	Forward, Upward
Change	Constant, Unstoppable
Time	Flowing, Passing
Space	Expanding, Contracting
Energy	Conserving, Transforming
Information	Sharing, Learning
Knowledge	Seeking, Understanding
Wisdom	Applying, Integrating
Experience	Living, Learning
Growth	Stretching, Expanding
Success	Reaching, Achieving
Failure	Struggling, Overcoming
Hope	Believing, Expecting
Faith	Trusting, Relying
Love	Connecting, Caring
Peace	Relaxing, Settling
Justice	Restoring, Balancing
Truth	Revealing, Uncovering
Beauty	Admiring, Enjoying
Good	Doing, Creating
Evil	Destroying, Hurting
Light	Shining, Illuminating
Dark	Shrouding, Hiding
Life	Breathing, Growing
Death	Releasing, Letting Go
Afterlife	Continuing, Evolving
Universe	Expanding, Contracting
Humanity	Connecting, Sharing
Progress	Advancing, Improving
Change	Transforming, Renewing
Time	Flowing, Passing
Space	Expanding, Contracting
Energy	Conserving, Transforming
Information	Sharing, Learning
Knowledge	Seeking, Understanding
Wisdom	Applying, Integrating
Experience	Living, Learning
Growth	Stretching, Expanding
Success	Reaching, Achieving
Failure	Struggling, Overcoming
Hope	Believing, Expecting
Faith	Trusting, Relying
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Peace	Relaxing, Settling
Justice	Restoring, Balancing
Truth	Revealing, Uncovering
Beauty	Admiring, Enjoying
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Change	Transforming, Renewing
Time	Flowing, Passing
Space	Expanding, Contracting
Energy	Conserving, Transforming
Information	Sharing, Learning
Knowledge	Seeking, Understanding
Wisdom	Applying, Integrating
Experience	Living, Learning
Growth	Stretching, Expanding
Success	Reaching, Achieving
Failure	Struggling, Overcoming
Hope	Believing, Expecting
Faith	Trusting, Relying
Love	Connecting, Caring
Peace	Relaxing, Settling
Justice	Restoring, Balancing
Truth	Revealing, Uncovering
Beauty	Admiring, Enjoying
Good	Doing, Creating
Evil	Destroying, Hurting
Light	Shining, Illuminating
Dark	Shrouding, Hiding
Life	Breathing, Growing
Death	Releasing, Letting Go

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				35					40					45
Ser	Ile	Gly	Glu	Arg	Pro	Val	Leu	Lys	Ala	Pro	Val	Pro	Lys	Arg
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Gln	Lys	Cys	Asp	His	Trp	Thr	Pro	Cys	Pro	Ser	Asp	Thr	Tyr	Ala
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Tyr	Arg	Leu	Leu	Ser	Gly	Gly	Gly	Arg	Ser	Lys	Tyr	Ala	Lys	Ile
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Cys	Phe	Glu	Asp	Asn	Leu	Leu	Met	Gly	Glu	Gln	Leu	Gly	Asn	Val
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Ala	Arg	Gly	Ile	Asn	Ile	Ala	Ile	Val	Asn	Tyr	Val	Thr	Gly	Asn
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Val	Thr	Ala	Thr	Arg	Cys	Phe	Asp	Met	Tyr	Glu	Gly	Asp	Asn	Ser
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Gly	Pro	Met	Thr	Lys	Phe	Ile	Gln	Ser	Ala	Ala	Pro	Lys	Ser	Leu
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Leu	Phe	Met	Val	Thr	Tyr	Asp	Asp	Gly	Ser	Thr	Arg	Leu	Asn	Asn
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